



Dr. Prashanti Rao

PhD, MUDP and B-ARCH
Assistant Professor
Department of Architecture
SPA Vijayawada

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Personal Profile

Architect and urban planner with Ph.D. having an experience of 12 years in practice and 10 years in teaching courses both in undergraduate and postgraduate levels. Apart from this editor of three reputed international journal and member advisory for UPSC board. Published more than 25 papers in reputed journals/conferences and Newsletters. Organized FDP's and Published one book and 4 book chapters in field of Architecture and Planning. Guided more than 40 dissertations for undergraduate and 25 plus Post graduate dissertation. Contributed in administrative and academic responsibilities like Associate Dean consultancy, Campus development Committee chairperson and Senate Member. Area of interest-Open Spaces and Biodiversity, Green and Blue Infrastructure, Neo-Vernacular, Social Ecosystem and Environment and Resilient Communities.

Education

2017 Ph.D.

The Department of Planning

School of Planning and Architecture Bhopal

Thesis title: "Linking visual accessibility and usability of Green Spaces in gated residential communities."

2011 M. PLAN – Masters in Urban Development and Planning

Maulana Azad National Institute of technology (MANIT), Bhopal.

Thesis Title: "Exploring Residential Land Values and determinants in Fringe Area for its sustainable growth process."

1999 B. Arch - Bachelor of Architecture

Maulana Azad College of Technology (MACT), REC, Bhopal.

Thesis Title - "Special school for Disable Children, Bhopal"

Additional Certificate Short term courses

2017- NEPTL- IITR- 8 Week Certificate course on "Housing and Policy"

2019- 5-day Certificate Course- "Energy Conservation Building code program and expert certification Assessment"

2020-15 days Certificate Course, IIRS Dehradun- "Online Certificate Course on Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials."

2020- NEPTL- IITR- 8 Week Certificate course on "Role of Craft and Technology in Interior – Architecture"

12th July'2021 -ATAL FDP- Topic: Pedagogical process in architecture – An orientation for young teaching fraternity | Institute: School of planning and architecture, Vijayawada, Andhra Pradesh.

5th July'2021 -ATAL FDP- Topic: Instructional design for effective teaching | Institute: BML Munjal university, Kapriwas, Haryana.

13th September' 2021 -ATAL FDP- Topic: Natural ventilation and building design in tropical regions | Institute: School of planning and architecture, Vijayawada, Andhra Pradesh.

Industrial and Academic Appointments/Experience

Presently since 2018

Assistant Professor-(Regular)
Department of Architecture
School of Planning and Architecture, Vijayawada

May 2018 since Dec 2017

Associate Urban Planner- (Free Lancer)
Sumith Gothi and Associates, M.P Nagar, Bhopal

Nov 2017 since June 2015

Assistant Professor-(Adhoc)
Department of Planning
School of Planning and Architecture, Bhopal

May 2015 since July 2014

Assistant Professor-(Adhoc)
Department of Architecture
School of Planning and Architecture, Vijayawada

June 2014 since August 2012

Research Scholar (Ph.D.)-Mandatory 8 hrs./Week teaching

Department of Architecture and Planning
School of Planning and Architecture, Bhopal

August 2012 since Jan 2012

Assistant Professor-(Adhoc)
Department of Architecture and Planning
MANIT, Bhopal

2005-2011

Project head and Senior Architect- (Regular -Limited Real-estate company)
M/s Agrawal Builders, Leading Real estate company,
E-2/4 Arera Colony, Bhopal

2002-2005

Consultant and Architect- (Proprietor Partnership- Free Lancer)
M/s Satyam Construction, Chun Bhatti Bhopal

2000-2002

Architect- (Regular -Limited Real-estate company)
M/S Agrawal construction company Bhopal

1999-2000

Deputy Architect
M/S Design Avenues, M.P Nagar **Bhopal**

Major Architectural Project as a Free Lancer

- Sagar Public School, Saket Nager, Bhopal-4 acres
- Sagar Estates, Ayodhya Nagar, Housing Township -8 acres
- SIRT, Ayodhya Bye Pass, Bhopal – 10 acres (Engineering Institute)
- Sagar Royal villas, Hoshangabad Road (550 Household)-13 acres
- Sagar Lake View Homes, Hathaikheda (350 Household) –7 acres
- Sagar Public School, Gandhinagar -6 Acres
- Sistec–Gandhinagar (Engineering Institute)-7 acres
- Sistec-E and R, Ratibadh (Engineering Institute)-11 Acres
- Sagar Spinning Mill, Thamot, Obedullaganj-100 Acres
- Karvy Financial Limited, Sehore, Interior project
- Bhartiyaam Airtel office, Interior project
- Gharonda Galleries, DB Mall. Interior Project

Planning Studio Coordinated 2012-2017

- Transport planning studio for IV Sem case study Sehore urban area.
- Neighborhood planning studio for II Sem case study Sagar royal villas, Hoshangabad road, Bhopal, Residential township.
- Environmental planning studio: Development of solid waste management proposal for Machilipatnam, A.P
- Basic design planning studio for Ist semester of B planning course.
- Integral studio for Masters in Planning as an adjunct faculty. Studio had three components (Area appreciation, Rural studies and Urban studies)
- Regional planning studio for Masters in Planning IIIrd Semester for APCR (Andhra Pradesh capital region), A.P district.
- Local area Planning studio Sem B-Plan for ward no-54 and 60 Of Bhopal municipality.

Architecture Studio Coordinated 2013- Till date

- Urban Design Studio for IX semester –Revitalization of New market area, 10 number Market square, Bittan Market Area.
- Design of resort for IV Sem, Case study of Shimla, Manali, Dharam shalla and Chandigarh.
- Design of Commercial mall V Sem, Case study of Bangalore, Mysore.
- Vernacular studio (Settlement Planning) III Sem- Case study of Raghurajpuraan Artist village 50 km away from Puri, Bhubaneshwar, Vishakhapatnam.
- Urban Design Studio for IX Sem- Revitalization of Railway station and its adjoining Precinct, Vijayawada.
- Fundamental Basic Design Studio-II – Case Study of Dakshin Chitra - Pondicherry and Auroville.
- Vernacular and Contemporary Residence Design- Chettinadu Houses and Weaver Settlement Planning –Case Study of Karaikudi, Kumbhakonam and Chettinadu houses at Nachiapuram of Tamil Nādu.
- Fundamentals of Basic Design-I Studio
- Fundamentals of Basic Design-II Studio
- B-Arch Thesis
- Complex Building Studio -VI Sem- 3-star Hotel cum Commercial Complex

Workshop/FDP/Conferences/Expert lecture/ Webinar Organized -2012 to 2022

Workshop-

Universal design for exploring world heritage sites in India. 8-9 Oct 2012 (Visited Sanchi and organized Hands-on workshop. As Organizing committee member, School of Planning and Architecture, Bhopal

Conference-

International conference on "Urban Green and Blue" held in School of Planning and Architecture Vijayawada on Feb -8-9 2015. Organizing committee member of School of Planning and Architecture, Vijayawada.

Workshop-

Awareness Workshop on 'Accessibility' for future professionals at School of Planning and Architecture, Bhopal on Dec (9 to 12th) 2016. Organizing committee member of School of Planning and Architecture, Bhopal.

Conference-

Organizing Committee member for international conference on Raja Bhoj Contribution on Architecture Planning and its relevance today at Bhopal, December 2017.

Expert Lecture-

Social spaces -Two days off line lectures for B-Arch Final year Students In view of Urban design studio -IX Sem
Ar. Prasanna Desai– On 21-09-2018

Expert Lecture-

Culturally Responsive Built Environments, Vernacular practice and Civic design - Two days off line lectures for B-Arch Students in View of III Sem Vernacular Architecture Studio
Dr. Ram Sateesh Pasupaleti– On 10-03-2019

Faculty Development Program-

A six-day Professional development Program on Application of GIS in Urban Resilience Planning on virtual mode at SPA Vijayawada-3/11/2020 to 8/11/2020

Conference-

International Conference on Resilient and Livable City Planning (RLCP 2020) Transforming Urban Systems Held at SPA Vijayawada on 10-13th Feb 2021 Technical collaboration and Knowledge Support for RLCP 2020 are Emerald Publishing and Springer

Faculty Development Program-

Six Day eSTTP and Industry-Academia Outreach Programme "URBAN DYNAMICS and CLIMATE CHANGE-28/01/2021 to 3/03/2021

Webinar-

Online webinar on- Advancing towards ecological resilience
Dr. Priya Leen Singh – Role of cultural Landscapes in building environmental Resilience- Demystifying Conservation. On 10-11-2021

Expert Lecture-

Online webinar on- Application of GIS for Landscape Architecture for Masters

Research Experience and Consultancy Projects

2019- Building Resilient Urban Communities (BReUCom) Research Project-Completed

A project funded under EU Erasmus+ Program in the field of Capacity Building in Higher Education. The BReUCom project conceives and pilots' postgraduate short term Professional Development Programs (PDPs) and open courseware (OCW) targeted at real world problems.

Worked in the capacity of member organized two PDP, prepared OCW and organized international conference as RLCP.

2019-GIS Based Master Plan Project for ELURU Package of DTCP, Andhra Pradesh (Ongoing)

This project is awarded by District Town and Country Planning Andhra Pradesh, to develop GIS based Master Plan for three towns Eluru, Jangareddygudem and Palacole.

Working in the capacity of GIS Expert (as member)

2019-Heritage walkway - Moghalrajpuram Caves, VMC Project (Completed Partially)

This project is funded by Vijayawada Municipal Corporation. The main objective is to conserve the Mughalrajpuram caves- 5 representing rock cut architecture numbers belonging to (5th century to 12th century AD), which exists on that street of 2km stretch, with landscape interventions, to enrich the past.

Worked in the capacity of Project In charge.

2017-Integrated cluster Action Plan, Madhya Pradesh-(Completed)

Integrated cluster action plan for Madhya Pradesh Cluster under the National Rurban Mission (NRuM) having the vision of "Development of a cluster of villages that preserve and nurture the essence of rural community life with focus on equity and inclusiveness without compromising with the facilities perceived to be essentially urban in nature, thus creating a cluster of "Rurban Villages" had been taken up by the School of Planning and Architecture, Bhopal, the Institute of National importance.

Worked as - Cluster Coordinator for Achatt Cluster of Chhatarpur District

2012- Ashapuri Temple Project

Client: Madhya Pradesh Monument Project, Government of Madhya Pradesh, Department of culture and world monument fund

Project taken up: School of planning and Architecture, Bhopal (P.I.- Dr. Vishakha Kawathekar) and P.R.A.S.A.D.A., Welsh School of, Cardiff University Architecture

(CO P.I. Dr. Adam Hardey)

Worked on Photo Documentation with critical dimensioning of architectural fragments. Along with site visit as and when required.

2012- Chambal Ravines and Rivers

School of Planning and Architecture, Bhopal (P.I.-Dr. Vishakha Kawathekar)

Contributed for few sections of the report, they were as mentioned

1. *Socio economic impact on ravine lands*
2. *Economic analysis of bamboo plantation in three major ravine system of India and Temples in Chambal valley.*

FDP (Resource person)- COA - TRC

10th – 13th August' 2021 -"Exploring Urban Planning Prospects in Architectural Design Studios – An Integrated Approach Towards Establishing Livable Cities"

Topics:

1. The implementation of policies in urban planning and design,
2. Different architectural perspectives on sustainable urban development

Organized by- Institute: Nehru school of architecture, Coimbatore, Tamil Nadu under COA - TRC

Outreach programme/ Guest lecture

June -2014

Invited as a Discussant in International workshop held in School of Planning and Architecture Vijayawada on Architectural Pedagogy.

May 2018

Invited as Resource Person to Speak upon Importance of Green Building Workshop conducted by Sagar Polytechnic on Green Buildings.

6th – 10th July' 2021

Topic: Implementing architecture innovation from foundation to finish Workshop Organized by Institute: LNCT university, Bhopal.

2nd August' 2021

Theme: -Fundamentals of research design and methodology

Topic- Data in Research

Institute: Oriental college of technology, Bhopal, Madhya Pradesh.

6th April' 2022

Theme: A mixed method approach to research and innovation in architecture and urban planning

Topic: Data Analysis and Mixed Methods

Institute: Chitkara school of planning and architecture, Chandigarh, Punjab.

Book and Book Chapters Published / Edited

Book Edited as a member of editor Uniting differences – **“Uniting design for exploring the world heritage sites in India”** –ISBN 978-81- 927981-0-3 – published in 2014 by SPAB Press.

Published Book Chapter in Innovative Energy Technology Systems and Environmental Concerns: A Sustainable Approach, on **“Ecosystem Conservation through Sacred Groves”**, ISBN: 978-93-84144-81-4, Page 213-220 in Year 2014.

(Paper Presented in International conference on Agriculture, Forestry, horticulture, Aquaculture, Animal sciences, Food technology, Biodiversity and Climate Change; AFHAFBC-2014 organized by Krishi Sanskriti on 30th and 31st August 2014 at conventional Centre, Jawaharlal Nehru University New Delhi}

Published Book **“Linking Visual Accessibility and Green Space Usability in Gated Residential Communities,”** Volume First Edition, Year 2021, Pages 1-205 by INSC Publishers.ISBN:978-1-954461-78-9.

Published open access peer-reviewed Book Chapter -**“Energy-Efficient Landscape Design.”** Authored by Dr. Prashanti Rao and Dr. Janmejy Gupta, as a part of book **“Design of Cities and Buildings-Sustainability and Resilience in the Built Environment”**, Year 2021, June Pages 1-16 published by Intech Open, England. [DOI:DOI: 10.5772/intechopen.94904](https://doi.org/10.5772/intechopen.94904) , ISBN: 978-1-78985-150-2: Print ISBN: 978-1-78985-149-6, eBook (PDF) ISBN: 978-1-78985-669-9. Copyright year: 2021 (Editor- Dr. Samad Sepasgozar, UNSW Sydney)

Published open access peer-reviewed Book Chapter -**“Role of Green Spaces for Maintaining Well-Being in Residential Community Development”** Authored by Dr. Prashanti Rao as a part of book **“Improving Quality of life”**, Year 2021, Pages 1-21", published by Intech Open, England. [DOI:DOI: 10.5772/intechopen.97681](https://doi.org/10.5772/intechopen.97681) . Submitted: December 9th 2020 Reviewed: April 12th 2021, Published: May 19th 2021. Edited by Ryan Merlin Yonk.

Published open access peer-reviewed Book Chapter **“Green Space Association with Mental Health and Cognitive Development”** Authored by Dr. Prashanti Rao, Ms Somaina Islary and Ar. Kapil Natawadkar as a part of book **“Urban Green Spaces ”**, Submitted: January 19th, 2022 Reviewed: February 11th, 2022 Published: April 26th, 2022 by Intech Open, London. [DOI: 10.5772/intechopen.103667](https://doi.org/10.5772/intechopen.103667).

Papers Published/Un Published/ Presented in National and International Conference

- Published in International conference proceedings **"Measurement of Sustainability in terms of Human population and their respective environments across time and space."** (CASA-2012) held in Bangkok. Presented Virtually.
- Published research Paper in International conference proceedings **"Interrogating Urban Transformations: since Bhopal Gas tragedy to the new shopping mall after the Global Economic Crisis."** Held in ATNEIR, Italy. (May-2013), Presented by Co-Author
- Published and Presented paper on **"Urban development a threat to Biodiversity"** in National Conference conducted by ITPI 62 Congress at Pune on 10th -12th of Jan 2014
- Published research paper in international conference proceedings **"Role of sacred grooves in sustenance of urban ecology"** in international conference organized by IIITM Gwalior on environmental sustainability.
- Presented Paper **"Initiatives for urban green spaces in Indian cities"** on International Conference held in SPA Vijayawada on Urban green and blue. (MAY 2015)
- Rao, P (2017), **"Factors impacting the transition in functions of water bodies and green spaces of Bhopal City, From Parmara Mughal Dynasty to Contemporary Era."** International conference on Raja Bhoj Contribution on Architecture Planning and its relevance today.
- Rao, P (2018), **"Spatial and economic challenges of newly formed Capital region: A case of APCR"**, 12th World Congress of the RSAI, Spatial system: Social Integration, Regional development and sustainability, Goa.
- Rao, P (2018), **"Importance of Green Building in Smart City: Scope and Challenges"**, National seminar on Green Building, S.R. Govt. Polytechnique College, Sagar, Madhya Pradesh. (Presented not published)
- Rao, P (2018), **"Mechanism to Promote Fuel Shifting Strategies From, Non-Renewable to Locally Available Sources in Rural India: A Case of Ratibad Cluster, Madhya Pradesh State"**, Souvenir of National conference on Comprehensive village development feasibility and sustainability.
- Published and Presented paper on **"Gated Communities Social**

sustenance and challenges of Open Spaces standards in India” in international conference “Resilient and livable City Planning-2020” held in SPA Vijayawada at February 10-15, 2021 Technical collaboration and Knowledge Support for RLCP 2020 are Emerald Publishing and Springer, ISBN:978-93-90211-61-6.

- Presented Paper on “**Global Challenges of Sustainability for Urban Villages**” in online international research symposium held on 21-22 May 2022, organized by in collaboration COA, NIUA, FOA&E JMI, THAMMASAT UNIVERSITY, CCA, FOAP AKTU, MSA our associate institutions and knowledge partners and to our publisher SCOPUS-indexed book series “Advances in 21st Century Human Settlements”, published by Springer Nature Singapore Pte Ltd.

Papers Published in Journals

- Published paper on “Empirical Investigation of the Initiatives to Alleviate the Development, Management, and Protection of Urban Green Spaces, -A Comparative Analysis of Twin City Ahmedabad and Gandhinagar in State of Gujrat, India” in International Journal of Engineering Research, **Volume** Vol. 2, **Year** 2013.
- Published paper on “**Evaluating the Urban Green Space benefits and functions at macro, meso and micro level: case of Bhopal City**” in International Journal of Engineering Research, **Volume** Vol. 3, **Year** 2014, **Pages** 359-369.
- Published paper in Spandrel (Issn-2231) “**Green Space as a major indicator for Sustainable Gated Residential Communities for future Indian cities.**” (Issue-9, 2015)
- Published paper in Spandrel (Issn-2231) Issue “**Integrating Sustainability in Creativity; Study on Informal Settlement Of Artists At Raghurajpur, Orissa.**” (Issue-10, 2015)
- Published research paper in Spatio-economic development record Journal (May-2016 issue) “**Developing tool to assess land use deviation to mitigate environmental conflicts on eco fragile areas, a case study of Dehradun.**”
- Published research paper in Spatio-economic development record Journal (Nov-2016 issue) “**Exploratory analysis for usability of green spaces in gated residential communities: a case of Bhopal city.**”
- Published research paper in Journal of Institute of Town Planners, India, **Year** 2017, “**Evaluating accessibility standards and bye laws for**

provision of green spaces in contemporary housing solutions”.

- Rao, P (2018), **“Assessment of Usability of Green Spaces for Low and Higher mobility User in Gated Residential Communities through Accessibility Indicator”**, International Journal of Applied Engineering Research ISSN 0973- 4562, Volume 13, Number 13 (2018) pp. 11172-11182.
- Rao, P (2019) **“ Role of Cultural and Religious for Ecosystem changes.”**, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-X, Issue-X, July 2019 (Scopus Index, DOI)

Articles in News Letters

- Published article on **“How much green is our Indian cities ”** in ITPI Newsletter M.P Chapter-2013.
- Published article on **“Initiatives for development and protection of green spaces in urban area ”** in ITPI Newsletter M.P Chapter-2013.

Reviewer for international Journals

- Environmental Health (REVEH)
- International Journal of Architecture and Infrastructure Planning
- International Journal of Landscape Planning and Architecture
- International Journal of Architecture and Infrastructure Planning

Academic and Administrative works within the institute

- 18th – 22nd April’ 2022 | Workshop: Filling the gaps | Event: Demystifying architectural sketching.
- International conference (Organized)- Resilient & Livable City Planning (RLCP 2020)- Organizing Secretary
- Vertical Design Studio -2020
- Preparation of Annual Report-2019 -2020
- Preparation of IPR-2020
- Organizing SPIC MACAY -2019 as Cultural Coordinator
- Organizing Annual Fest Inyan -2018 to 2021 as Cultural Coordinator
- Organization of National Festival like Republic Day, Independence Day, Swatch Bharath Abhiyan, Ekta Diwas and Hindi Diwas within the Institute-2018 to 2021
- Indulge in Campus Development works like Compound wall construction, Basket Ball Ground, Football Ground and Open Gym Facility as Campus Development Chairperson.

- Initiated the Installation work of Solar Power Plant on Institution Block Terrace to conserve energy.

Academic and Administrative works within the institute

- Technical paper reviewer for conference- COEP Pune (2020-2022)
- External Paper setter for the subjects -Demography; Ecology and Environment, COEP Pune (2021-2022)
- Paper reviewer for international journal Environment Health-2022
- Paper Reviewer for International Journal of Architecture and Infrastructure Planning-2021-2022
- External expert for B-Arch thesis for MANIT Bhopal-2021
- External Expert for B-Planning thesis review COEP Pune-2021

Members of Other Bodies/Association/organization

- Associate Member-Institute of Town Planners, (ITPI)-life time
- Member – Council of Architecture (COA}- life time
- Former Member- Advisory, Union Public Service Commission, New Delhi- 2018 to 2021
- Former member ITPI, MP Chapter, Newsletter, Editor, 2016-2018
- Former Member of Coastal Architect Association, Andhra Pradesh Chapter- 2014

Awards and Honors/Scholarship/ Competition

1.Received fellow scholarship from SPA Bhopal -TIQP in 2012 as full-time research Scholar under Doctoral Program.

2.Honoured by ITPI MP Chapter for best thesis Award for PhD title – “Linking Visual Accessibility and Usability of Green Spaces in Gated Residential Communities.”

3. Under YUKTI / Smart India Hackathon. (YUKTI 2.0 -MoE’s Innovation Cell a GoI Initiative is to make every possible effort to support the start-ups and technologies from academic institutions by connecting with mentors/ trainers, providing the outreach and facilitating the connect with potential investors.) - Project “SAHAJ JAN SUVIDHA- Water harvesting using WARKHA Technology” was submitted from SPAV Team had been shortlisted in top 15.

Administrative Responsibilities Holding between 2018-till date

- Senate Member of SPA Vijayawada- Since-2021 till date
- Associate Dean Research Consultancy and Project testing- 2021 to 2022
- SPAV Editorial Committee Member, 2021 to 2022
- Internal Complaint Committee – SPAV Chairperson- 2019 to 2022

- Mental health and Well-being Committee, SPAV – Member-2019 to 2022
- Campus Development Committee Chairperson-2020 to till date
- Campus Development Committee- Member 2019-2020
- Cultural Committee- Faculty In charge-2018 to 2022
- Disciplinary Committee- Member- 2018-2021
- Anti-Ragging Squad- Member-2018-2021
- Ek Bharat Shrestha Bharat Cell -Member-2020 to 2022
- Hostel Committee-Girls Hostel Warden-2018 to 2022
- IPR Committee- Member-2019 to 2021
- Research and Consultancy Committee- Member- 2019 to 2020
- SPAV Library Committee member-2019 to 2022
- NIRF Ranking Committee-Member- 2019 to 2022

Other Proficiencies

Software: Microsoft Office (Word, PowerPoint, Excel, PowerPoint), AutoCAD, 3DMax, Corel Draw, Adobe Photoshop, GIS (Basics), Sketch-Up, In-Design.

Language: Hindi, English, Kannada, Telugu and Tamil

Declaration

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief.